



For High-Performance Internet Connectivity, Choose Fiber

High-speed connectivity is the lifeblood of modern businesses and organizations. High-performance internet access is essential for communications and various data services. As businesses, devices, and individuals become increasingly connected, the need for fast, dependable, and highly available bandwidth becomes crucial.

Segra offers a breadth of other communication services to target all your telecommunication needs, along with network security features to make your internet infrastructure safer and more resilient. Segra's connectivity services are all built on an extensive and trusted wholly-owned fiber network with the range and performance to drive scale and growth.

Segra's Fiber-based Ethernet provides high speed internet and data services with guaranteed bandwidth to help ensure that your business or organization is always online.

The benefit of dedicated bandwidth

High-performance fiber connectivity from Segra differs from many other sources of broadband internet which often deliver congested, unpredictable or patchy access and services. On these networks, users only sporadically receive the megabits per second (Mbps) they are promised, as the bandwidth is shared with many other subscribers.

Fiber internet connectivity offers dedicated services at a guaranteed bandwidth that is designated for your business only, and not shared with other users. This preserves your internet connection speeds since there is no competition for the bandwidth and enables Segra to offer SLAs that define the performance parameters of the service and guarantee a stated level of service quality. This dedicated performance is essential for fast-evolving businesses that depend on internet services for customer-facing outreach and communications and require trustworthy connections to the cloud for data processing and other services.

Symmetrical download and upload speeds

Another performance benefit of fiber connectivity is symmetrical upload and download speeds when transferring data to and from the internet. In other words, the network delivers consistent access performance to both incoming and outgoing data, enabling online transactions and data traffic to complete quickly and reliably, at a predictable level of performance.

Other forms of broadband connectivity offer download and upload speeds that are asynchronous, meaning that they operate with differing levels of performance. Often download speeds will be significantly faster than upload speeds. While this may not be a problem for businesses with comparatively simple online services or limited data requirements, the disparity between download and upload performance can be a real hindrance for smooth user experiences on websites and can create bottlenecks for fast, dependable transport of media and large datasets.

Let's Create Winning Connections Together.

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This can be a major issue for businesses or organizations that rely on highly responsive web interfaces for e-commerce or for pushing content to viewers. Slow responses to queries or slow-loading pages can discourage viewers and send an indirect message about the reliability of the website – and the company it represents.

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Many businesses have business critical applications that increasingly rely on sharing large files and transmitting key data to partners or the cloud, and it will take a lot longer for a file to upload and reach its destination over an asynchronous service than over a network with synchronous bandwidth. Examples of businesses or organizations that upload large files and datasets are architecture and law firms, healthcare organizations and studios that produce and disseminate digital media. Even small businesses that rely on video conferencing platforms can feel the impact of asynchronous bandwidth speeds during video meetings, when images freeze or conversations garble. Bi-directional synchronicity throughput ensures a higher quality experience in all of these situations.

Service quality, reliability and availability

Segra fiber connectivity services are ideal for all types of applications that require QoS (Quality of Service) guarantees, including voice, video, virtual private networks (VPNs) and services to remote workers and servers. Segra fiber also supports Class of Service capabilities that prioritize bandwidth for voice and video traffic.

Fiber networks are built with a high level of redundancy and repairs to one part of the network do not affect other users.

Segra Internet

Segra's high performance fiber-based internet service is an essential infrastructure differentiator for businesses that depend on fast, secure and reliable internet access.

Segra internet provides dedicated connectivity to the internet with guaranteed bandwidth to help ensure that your business is always online, with all the speed and performance you require. Don't slow your business down with internet access that's shared across multiple users.

Specifications

Speeds: 10 Mbps to 100 Gbps

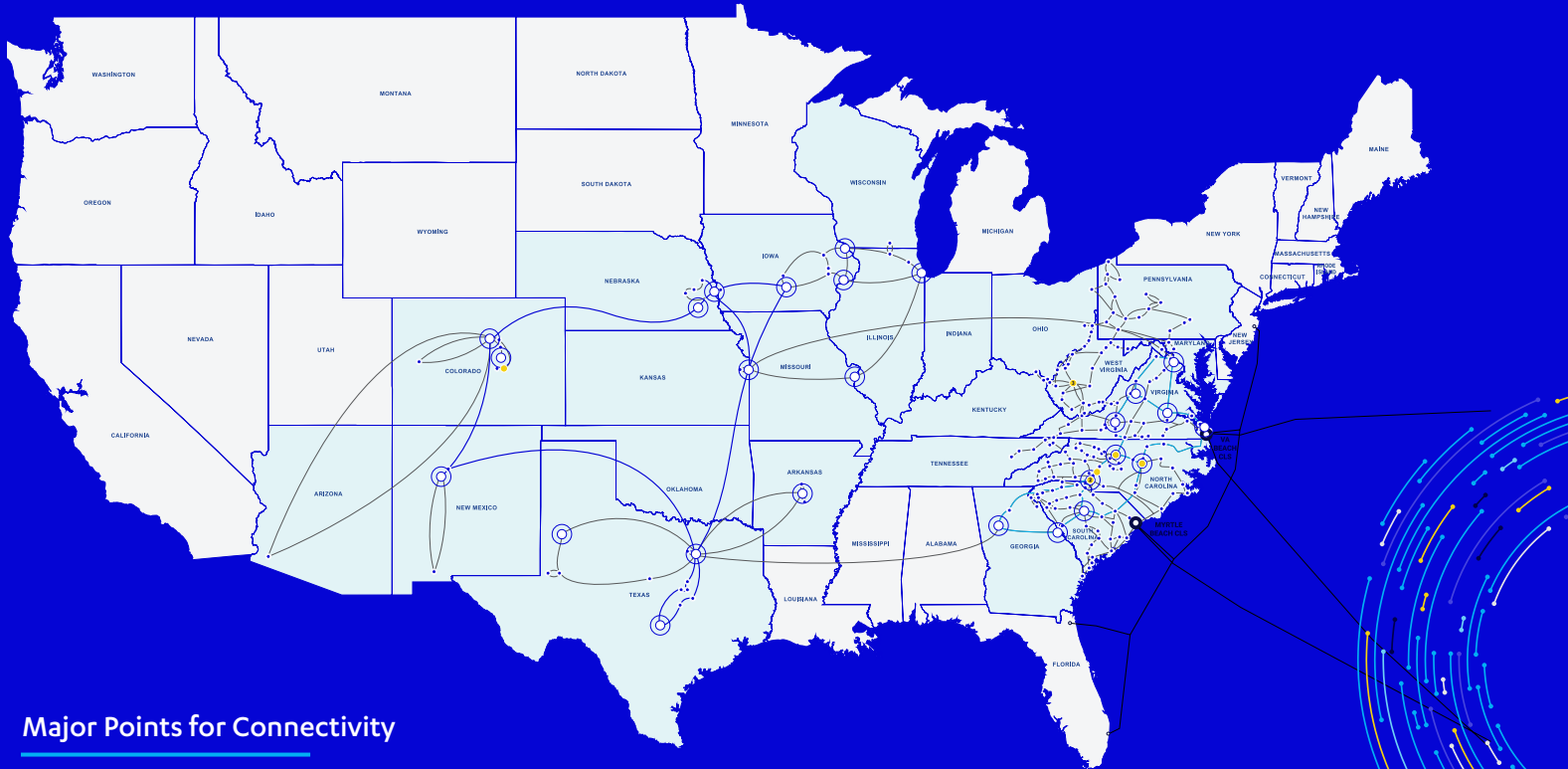
Ports: 10/100 Mbps, 1 Gbps, 10 Gbps, 100 Gbps

Access: Type 1/on-net or Type 2/off-net access

Availability: Across the entire Segra network

Benefits of Segra Internet include:

- **Increased productivity.** Increase productivity by providing the reliable, high-performance internet access employees and systems need to operate every day.
- **Improved scalability.** Offers scalability by supporting a range of access speeds so you can grow your internet bandwidth as your online business needs increase.
- **Extensive fiber network.** Spanning 24 states and covering more than 44,000 route miles, Segra's network offers one of the largest and most extensive private fiber infrastructure footprints in the eastern United States. Segra fiber services are installed in thousands of on-net locations and fiber-to-the-cabinet (FTTC) sites. Segra also operates nine SSAE 16 SOC 2 Type II certified data centers.
- **End-to-end support and services.** To ensure you receive full benefit of your Segra high-performance fiber connectivity, we do more than simply bring fiber the last mile to your building's DMRC cabinet, we bring it the last few feet to your office suite. We offer full installation and deployment services, and can provide the best switches, routers and other networking equipment for your unique requirements. This enables Segra to offer true end-to-end quality of service.



Major Points for Connectivity

Arizona Yuma	Illinois Chicago	New Mexico Albuquerque	South Carolina Charleston Columbia Greenville Myrtle Beach	Virginia Ashburn Culpeper Harrisonburg Norfolk Richmond
Arkansas Little Rock	Iowa Des Moines Davenport Dubuque	North Carolina Asheville Charlotte Fayetteville Greensboro Raleigh Wilmington	Tennessee Johnson City Kingsport Knoxville	West Virginia Charleston Clarksburg
Colorado Colorado Springs Denver Grand Junction	Kansas Kansas City	Pennsylvania Harrisburg Pittsburgh	Texas Dallas Killeen Lubbock San Antonio Waco	
Georgia Atlanta Augusta Savannah	Missouri Kansas City St. Louis	Nebraska Lincoln		

- Express Optical Core Network
- Midwest IP Core
- ⊙ Major Markets
- Lit Market
- Segra Data Centers
- ⊙ Cable Landing Station Network Connection Points

Features of Segra Internet:

- **Dedicated Access.** Your fiber connection is not shared, guaranteeing reliable, high-performance access to the internet.
- **Synchronous Upload and Download Speeds.** Internet upload and download speeds are the same, enabling the consistent performance access needed for online transactions to complete quickly.
- **Bandwidth Scalability.** Bandwidth can be increased to up to 100 Gbps speeds, so there is plenty of room to increase bandwidth as your internet access needs grow.
- **Multi-Service Support.** Segra Internet supports other network services, offering a single network for all your telecom needs. With Segra IP Voice services, QoS prioritizes voice traffic bandwidth. Additionally, Segra Firewall enhances security with unified threat management, intrusion prevention, and virus/malware protection.

Segra Data Centers

2100 Garner Station Blvd | Raleigh, NC
 3100 International Airport Dr | Charlotte, NC
 3101 International Airport Dr | Charlotte, NC
 3310 Old Lexington Rd | Winston-Salem, NC
 465 Charles Babbage Ln | Kannapolis, NC
 301 Main St | Pueblo, CO

To learn more about Segra's fiber services and solutions, visit:
<https://www.segra.com/solutions>
businesssolutions@segra.com
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